

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Irwin J. Griffith et al.

Serial No.: 08/737,904

Filed: November 20, 1996

For: T CELL EPITOPES OF RYEGRASS POLLEN
ALLERGEN

Attorney Docket No.: IMI-040CP3 (075.1US)

BOX SEQUENCE

Assistant Commissioner for Patents
Washington, D.C. 20231

Group Art Unit: 1644

Examiner: R. Schwadron



Certificate of First Class Mailing (37 CFR 1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: BOX SEQUENCE Assistant Commissioner for Patents, Washington, D.C. 20231 on the date set forth below.

15 December 99
Date of Signature and of Mail Deposit

By:

Jeanne M. DiGiorgio
Jeanne M. DiGiorgio
Reg. No. 41,710
Attorney for Applicant

TRANSMITTAL LETTER FOR DISKETTE OF SEQUENCE LISTING

Dear Sir:

In response to the Notice to Comply with Requirements for Patent Applications Containing Nucleotide and/or Amino Acid Sequence Disclosures, and the Examiner's Communication dated November 17, 1999, we enclose a diskette which contains a computer readable form of the Sequence Listing for the above-identified application.

Substitute pages 47 - 67 are submitted herewith. The material on the enclosed diskette is identical in substance to the enclosed sequence listing. The computer readable form of the Sequence Listing contained on the enclosed diskette is understood to comply with the requirements of §§ 1.821-1.825. No new matter has been added.

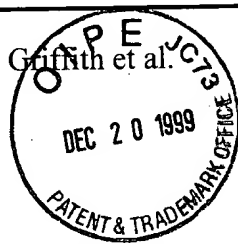
Respectfully submitted,

Jeanne M. DiGiorgio
Jeanne M. DiGiorgio
Registration No. 41,710
Attorney for Applicants

Dated: December 15, 1999

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Irwin J. Griffith et al.
Serial No.: 08/737,904
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15 December 99
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Jeanne M. DiGiorgio
Jeanne M. DiGiorgio
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Attorney for Applicant

**RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT
APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO
ACID SEQUENCE DISCLOSURES**


Dear Sir:

Responsive to the "Notice to Comply with Requirements for Patent Applications Containing Nucleotide and/or Amino Acid Sequence Disclosures" and the Examiner's Communication, dated November 17, 1999 (a copy of both of which is attached herewith), Applicants have amended the Sequence Listing submitted on September 24, 1999 to contain the amino acid sequence shown in Figure 16, to comply with the new sequence rules, and to provide a copy of the sequence listing in computer readable form.

A paper copy of the corrected Sequence Listing and a computer readable form of the sequence listing (diskette), which is identical in substance to the paper copy of the Sequence Listing, in accordance with 37 C.F.R. §1.821(c) and (e), are also submitted herewith.

No new matter has been added to the application. Accordingly it is respectfully requested that the above amendments be entered.

Respectfully submitted,


Jeanne M. DiGiorgio
Registration No. 41,710
Attorney for Applicants

LAHIVE & COCKFIELD, LLP
28 State Street
Boston, MA 02109

Dated: December 15, 1999

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ERICK B. BERGLUND, Ph.D.

December 15, 1999

BOX SEQUENCE
Assistant Commissioner for Patents
Washington, D.C. 20231

Re: U. S. Patent Application Serial No. 08/737,904
Title: *T CELL EPITOPES OF RYEGRASS POLLEN ALLERGEN*
Applicant(s): Irwin J. Griffith, et al.
Filed: November 20, 1996
Examiner: R. Schwadron; Group Art Unit: 1644
Attorney Docket No. IMI-040CP3 (075.1 U.S.)

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Preliminary Amendment;
2. Response to "Notice to Comply with Requirements for Patent Application Containing Nucleotide and/or Amino Acid Sequence Disclosures";
3. A copy of "Notice to Comply with Requirements for Patent Application Containing Nucleotide and/or Amino Acid Sequence Disclosures";
4. Substitute pages 47-67 containing the Sequence Listing;
5. Diskette containing the Sequence Listing;
6. Transmittal letter for Diskette of Sequence Listing; and
7. Return receipt postcard.

Please charge any necessary fees to our Deposit Account No. 12-0080. The undersigned requests any extensions of time necessary to respond. A duplicate of this sheet is enclosed.

I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on:

December 15, 1999

Date

Jeanne M. DiGiorgio, Reg. No. 41,710

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

Jeanne M. DiGiorgio
Reg. No. 41,710



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.



EXAMINER	
ART UNIT	PAPER NUMBER

DATE MAILED:

Please find below a communication from the **EXAMINER** in charge of this application
Commissioner of Patents

The communication filed on 9/28/99 is not fully responsive to the communication mailed 8/24/99 for the reason(s) set forth on the attached Notice to Comply With the Sequence Rules or CRF Diskette Problem Report.

Since the response appears to be bona fide, but through an apparent oversight or inadvertence failed to provide a complete response, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. **EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).**

Any inquiry concerning this communication should be directed to Examiner Ron Schwadron, Ph.D., Art Unit 1644, whose telephone number is 703-308-4680.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0196.

RONALD B. SCHWADRON
PRIMARY EXAMINER
GROUP 1800-1600

Ron Schwadron, Ph.D.
Art Unit 1644

PAGE: 1

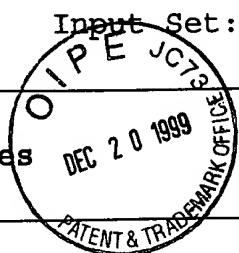
RAW SEQUENCE LISTING

PATENT APPLICATION US/08/737,904C

 DATE: 10/15/1999
 TIME: 11:21:27

Input Set: H737904C.RAW

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.



Does Not Comply
Corrected Diskette Needed

E-->

1 <110> Immulogic Pharmaceutical Corp.
 2 <120> T CELL EPITOPES OF RYEGRASS POLLEN ALLERGEN
 3 <130> IMI-040CP3
 4 <140> US/08/737,904C
 5 <141> 1996-11-20
 6 <150> 08/106,016
 7 <151> 1993-08-13
 8 <160> 60 61 (see below)
 9 <170> PatentIn Ver. 2.0

ERRORED SEQUENCES FOLLOW

10 <210> 61
 11 <211> 303
 12 <212> PRT
 13 <213> Lolium perenne
 14 <400> 61
 15 Met Ala Val Gln Gln Tyr Thr Val Ala Leu Phe Leu Ala Val Ala Ser
 16 -20 -15 -10
 17 Cys Arg Ala Arg Ala Ser Tyr Ala Ala Asp Ala Gly Tyr Ala Pro Ala
 18 -5 -1 1 5
 19 Thr Pro Ala Thr Pro Ala Thr Pro Ala Ala Pro Gly Ala Ala Val Pro
 20 10 15 20
 21 Ala Gly Lys Ala Ala Thr Glu Glu Gln Lys Leu Ile Glu Lys Ile Asn
 22 25 30 35 40
 23 Ala Gly Phe Lys Ala Ala Val Ala Ala Ala Gly Val Pro Pro Gly
 24 45 50 55
 25 Asp Lys Tyr Lys Thr Phe Val Glu Thr Phe Gly Lys Ala Ser Asn Lys
 26 60 65 70
 27 Ala Phe Leu Gly Asp Leu Pro Thr Asn Tyr Ala Asp Val Asn Ser Arg
 28 75 80 85
 29 Ala Gln Leu Thr Ser Lys Leu Asp Ala Ala Tyr Lys Leu Ala Tyr Asp
 30 90 95 100
 31 Ala Ala Gln Gly Ala Thr Pro Glu Ala Lys Tyr Asp Ala Tyr Val Ala
 32 105 110 115 120
 33 Thr Leu Ser Glu Ala Leu Arg Ile Ile Ala Gly Thr Leu Glu Val His
 34 125 130 135
 35 Ala Val Lys Pro Ala Ala Glu Glu Val Lys Pro Ile Pro Ala Gly Glu
 36 140 145 150
 37 Leu Gln Ile Val Asp Lys Ile Asp Val Ala Phe Arg Thr Ala Ala Thr
 38 155 160 165
 39 Ala Ala Asn Ala Ala Pro Thr Asn Asp Lys Phe Thr Val Phe Glu Thr

DATE: 10/15/1999
TIME: 11:21:27

PAGE:

2

40	170					175					180						
41	Thr	Phe	Asn	Lys	Ala	Ile	Lys	Glu	Ser	Thr	Gly	Gly	Thr	Tyr	Glu	Ser	
42	185					190					195					200	
43	Tyr	Lys	Phe	Ile	Pro	Thr	Leu	Glu	Ala	Ala	Val	Lys	Gln	Ala	Tyr	Ala	
44	205					210					215						
45	Ala	Thr	Val	Ala	Ser	Ala	Pro	Glu	Val	Lys	Tyr	Ala	Val	Phe	Glu	Thr	
46	220					225					230						
47	Ala	Leu	Lys	Lys	Ala	Val	Thr	Ala	Met	Ser	Glu	Ala	Gln	Lys	Glu	Ala	
48	235					240					245						
49	Lys	Pro	Ala	Thr	Ala	Thr	Pro	Thr	Pro	Thr	Ala	Thr	Ala	Ala	Ala	Ala	
50	250					255					260						
51	Val	Ala	Thr	Asn	Ala	Ala	Pro	Val	Ala	Ala	Gly	Gly	Tyr	Lys	Ile		
52	265					270					275						

E-->

54

265
1
48
Delete at end of file

Py I

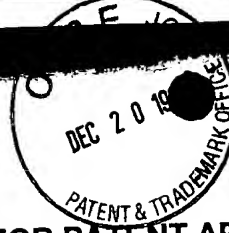
Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION US/08/37,904C

DATE: 10/15/1999
TIME: 11:21:27

Input Set: H737904C.RAW

Line	Error/Warning	Original Text
8	E # of Seq. 60 Not Equal Actual 61	<160> 60
54	E Invalid/Missing Amino Acid Numbering	48



Application No.: 08737904

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE